

Homework – Deductive Syllogisms: Validity

Instructions: Determine if the following arguments below are valid or invalid by circling either selection.

- 1) **P1:** If you are sitting, then you are not standing.
P2: Alvin is sitting.
C: Alvin is not standing.

Valid / Invalid

- 2) **P1:** If it rains, then you use an umbrella.
P2: Sara used an umbrella
C: It rained.

Valid / Invalid

- 3) **P1:** All squares are parallelograms.
P2: All rhombuses are parallelograms.
C: All squares are rhombuses.

Valid / Invalid

- 4) **P1:** All dogs have tails.
P2: Fido is a dog.
C: Fido has a tail.

Valid / Invalid

- 5) **P1:** All women are potential mothers.
P2: Betty is a potential mother.
C: Betty is a woman.

Valid / Invalid

- 6) **P1:** All red items are blue
P2: All blue items are purple.
C: All red items are purple.

Valid / Invalid

- 7) **P1:** If you text, then you have a cell phone.
P2: Alice has a cell phone.
C: Alice texts.

Valid / Invalid

- 8) **P1:** If it is not snowing, then Mark will walk.
P2: Mark did not walk.
C: It was snowing.

Valid / Invalid

- 9) **P1:** All hens lay eggs.
P2: Janet is not a hen.
C: Janet does not lay eggs.

Valid / Invalid

- 10) **P1:** If you understand this assignment,
then you will complete it.
P2: Tony completed this assignment.
C: Tony understood this assignment.

Valid / Invalid